PROCEDURES FOR THE VERIFICATION OF CRITICAL DIMENSIONS OF WASHING VESSELS AASHTO T 210

A. PURPOSE

This method provides instruction for the verification of critical dimensions of washing vessels, lids, and gaskets used in durability test. The speed (cycles per minute) of the modified Tyler shaker is also verified.

B. APPARATUS REQUIRED

- 1. Calipers capable of measuring the inside diameter of the vessels and lids readable to 0.001 inch.
- 2. Calibrated tachometer.
- 3. Ruler capable of measuring the height of the vessel.

C. PROCEDURE

- 1. Measure and record the inside diameter of the vessels to the nearest 0.001 inch. Rotate vessel 90 degrees (1/4 turn) and measure and record the inside diameter again.
- 2. Repeat Step 1.
- 3. Measure the inside and outside diameter of the lid and record.
- 4. Measure and record the height of the vessel to the nearest 0.001 inch. Rotate vessel 90 degrees (1/4 turn) and measure and record the height again. (Measure from the inside bottom of the vessel to the top of the rim.)
- 5. To verify the speed (cycles per minute) of the modified Tyler Shaker, place a piece of reflective tape on the base of the vessel holder. Place the vessel with water and sample inside and lid attached and locked in the vessel holder. Secure the vessel to the vessel holder. Position tachometer so the light hits the tape. Start shaker and allow to run for five (5) minutes. Observe and record RPM. Obtain the RPMs two more times and record. Obtain the average of the three tests and record as the RPMs of the shaker.

D. TOLERANCE

Critical dimensions shall meet the requirements specified in AASHTO Method T 210. The equipment is considered to be out of tolerance if any of the measurements do not meet specifications.

Note: All footnotes in the test method apply.

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EQUIPMENT VERIFICATION RECORD

Verified By:				Date:	
Equipment: Durability Equipment				Location (Lab):	
Identification No.:				Verification Free	quency: 12 months
Previous Verification Date:				Next Due Date:	
Verification Equipment Used: Calibrated tachometer, SN:					; Calipers (readable to
0.001 in.), SN: ; Ruler					
Verification Procedure: (In-house) OMR-CVP-49 / AASHTO T 210					
Washing	Inside Diameter	Inside Height		D	1
Vessel ID	7,875-7.938	9.5-9.9563		Rema	ırks
Vessel Lid	Inside Diameter	Outside Diameter	r		
Lid Width	7.858-7.891	8.594-8.656			
Vessel Gasket	7.828-7.859	8.5-8.531			
Condition of washing vessel: Good Fair Poor Rim Smooth?					Yes No
Rim plane to 0.01 in.?					Yes No
Vessel water tight?					Yes No
Does the vessel have three clamps in operating condition?					Yes No
Is vessel made of 20-gauge stainless steel?					Yes No
Modified Tyler Shaker: Serial No. or QC No					
				RPMs first test	
				RPMS third test	
*	cycles per minute (Good	range 275-295)? Fair Poor		Average	
Shaker condition	. 3004 1	1 001			

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Remarks: